Introduction to Hazardous Waste Regulations Webinar Series

Office of Environmental Assistance

Office of Waste
Management and
Radiological Protection





Introduction to Hazardous Waste Regulations Webinar Series

Paperwork Requirements & What to Expect When The Inspector Arrives



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Housekeeping

- All lines will be muted
- Questions can be sent to us via the question/chat box
- We will record webinar and post online
- Notes page



Environmental Assistance Center(EAC)

Phone: 1-800-NO2-WASTE

(1-800-662-9278)

Hours: 8:00 AM to 4:30 PM

Monday – Friday



Technical Assistance Services Include:

Air Environmental Audit Privilege

Waste Site Remediation

Water Permit Coordination



Do I Need to Know All of This?

Hazardous waste regulations...

apply to all businesses, including municipalities, hospitals, & service industries, not just manufacturing industries

are written broadly to address hazards posed by all waste streams



Why Cover These Topics?

Hazardous waste regulations require each business to...

Properly prepare, maintain, and have available at the time of inspection all documents required under RCRA and Part 111 rules.

Keep all documents <u>on-site</u> for a period of not less than 3 years from the last date of off-site shipment or on-site treatment or disposal.



Paperwork Requirements

Paperwork Requirements Include:

Notification of Waste Activity (MI Site ID)

Waste Characterizations

Manifests and Shipping Records

Land Disposal Restriction Forms (LDRs)

Waste Area Inspection Documents

Biennial Reports

Training Records

Contingency (Emergency) Plans



Notification of Hazardous Waste Activity

Generators must notify of regulated waste activity.



The Office of Waste Management and Radiological Protection (OWMRP) issues SITE IDENTIFICATION NUMBERS to

facilities per site.

Liquid Industrial Waste Generators must have an ID number!

Respond under authority of the listense Resources and Environmenter Protection stall. Stall False SE, as attained if Selver to soland fine internation may result to clot or strong parallels.	MORS	MCHEGAN DEPARTMENT OF ENVIRONMENTAL QUALITY Visuals and Inspirations Materials Constant SITE IDENTIFICATION							
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II. Name of Site	A. Legal Company Name:								
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Manifest & Shipping Records

Uniform Manifest <u>must</u> be used when hiring permitted & registered transporter to ship hazardous or liquid industrial waste to MI facilities except when:

SQG shipping waste off-site for reclamation and regenerated material is brought back to generator when specific conditions are met (tolling agreement)

Generator hauling ≤ 55 gallons of their own liquid industrial waste to designated facility with proper records

Transporter using consolidated manifest must provide company with a record of shipment with manifest number (keep copies at least 3 years)



Manifest & Shipping Records

Generator must keep track of shipments and submittal of manifests.

Manifest copies signed by the disposal facility should be sent back to the generator after date of shipment by:

CESQG or LIW

35 days: contact disposal facility

45 days: file report

SQG

60 days: file report

LQG

45 days: file report



Manifest T∤acking Number	Date shipped off-site	Date LDR ² submitted	Date Generator Copy ³ sent to MDEQ for LIW and CESQG HW shipments	Date TSDF Copy ⁴ received from TSDF	Date out-of- state HW TSDF copy sent to MDEQ if not submitted by TSDF	Waste Type	Quantity and u of measure (e. pounds, tons gallons, cubic yards, et
			[

Hazardous Waste Manifests

RULE CHANGE!!

(Rule 306(1)(c)

Generator copies of the manifests for SQG and LQG hazardous waste do not need to be sent to the DEQ

For hazardous waste shipped out of state, generators remain responsible for ensuring that DEQ receives manifest copy with 3 signatures (TSD copy)



Liquid Industrial Waste Manifests

No change in law for submittal of manifests.

Must submit copy of the manifest to DEQ by the 10th day after the end of the shipment month

Must track manifests to verify receipt of 3rd signature copy from designated facility within 35 days of shipment

Part 121 is currently being reviewed for change similar to HW manifest



Land Disposal Restrictions (LDR)

(Rule 311 and 40 CFR 268)

Applies to listed & characteristic hazardous wastes from SQGs & LQGs

Notice sent to each TSD for each waste stating waste meets or does not meet LDR standards

Requires treatment before land disposal for most wastes

New LDR notification must be sent when there is a waste or facility change



Land Disposal Restrictions (LDR)

(Rule 311 and 40 CFR 268)

To determine if treatment is required, review if waste codes for each waste stream meet the standards in 40 CFR 268.40, 268.45 (debris), or 268.49 (soil)

Notification required even for shipment to non-land based TSDs (e.g. incinerator)

Land disposal includes any disposal on land (landfill, land treatment, injection well, salt caverns, etc.)



LDR Generator Recordkeeping Requirements

Keep LDRs & related documents for at least 3 years after waste last sent to TSDF

LDR's must have complete information such as categories of waste and underlying hazardous constituents

Information on LDR must be consistent with the waste characterization

On-site generator treatment to meet LDR criteria (40 CFR 268.48) requires a written plan describing the activities performed



Hazardous Waste Biennial Report

(Rule 307)

Required of LQGs and TSDs

Submit by March 1 of even-numbered years

Report includes both MI and EPA hazardous wastes

Details hazardous waste activity in previous odd year

Keep copy at least 3 years from due date



Hazardous Waste Biennial Report

(Rule 307)

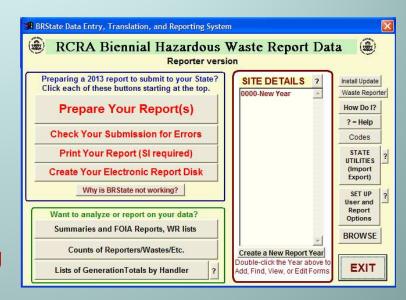
IMPORTANT CHANGE!!

OWMRP is not mailing out biennial packets in 2014

January 2014 electronic notification issued to required reporters encouraging electronic reporting

Download Florida's biennial reporting software (BRSW4) shown at right

Find more information at www.michigan.gov/deq, search for "Biennial"



E-mail questions to BiennialReport@michigan.gov



Hazardous Waste Area Inspection Documents

SQG & LQG must perform weekly container accumulation area inspections & each operating day for a hazardous waste storage tanks

LQGs must document hazardous waste container accumulation area & tank inspections



REQUIRED WEEKLY HAZARDOUS WASTE MAINTENANCE INSPECTION CHECKLIST

MONTH: YEAR:																				
WEEK#	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Labeled																				
Dated																				
Containers Closed																				
Spills																				
Containment																				
Corrective Measures																				
Date																				
Initials																				

On the back, write comments on any areas below that were not in compliance (include the date).

<u>_abeled</u>: Check that all drums and all other containers are properly labeled ("Hazardous Waste" and waste number)

If satellite container, check if label has "Hazardous Waste" and either waste number or chemical name, or it can have both.

<u>Dated</u>: Check to see if the container has the date listed when waste was first put in the container, and confirm the date on the container has not exceeded 90 days for Large Quantity Generator, or 180 days for Small Quantity Generator, which ever is

applicable. If the date on the container has exceeded 90 days or 180 days, contact management.

If it was a satellite container, check if the date was listed when the containers from that satellite area reached the maximum

amount, either 55 gallons non acute, or 1 quart acute or severely toxic, hazardous waste.

Containers Closed: Make sure that containers are closed (e.g., both bungs are in drums, drum ring top is secure, funnel tops closed, funnel valve closed, or tarp over mill-off box)

Spills: Check that all containers are not leaking, bulged, or in poor condition. Are spills or staining present? If so, contact

management.

Containment: Make sure that there hasn't been any degradation to the secondary containment, (e.g., any cracks, is coating sufficient?)

Is there enough set back distance of containers for squirt protection? Are all containers in the containment area?

Corrective Measures: Are corrective measures needed and taken? Record details on the back

Date & Initials: Inspector dates and initials.

Revised 5/2008. Use of this DEO WHMD charklist is ontional, but Larne Quantity Generators are required to have written increation records and all others are

Emergency Planning and Training Requirements

CESQG

SQG

HAZARDOUS WASTE EMERGENCY INFORMATION

EMERGENCY	Name	Map of facility with emergency equipment, spill equipment, exit routes, and alarm locations.
COORDINATOR	PHONE.	Touces, and afairn focations,
ALTERNATE	Name	_
	PHONE	_
FIRE DEPT.	PHONE	_
HOSPITAL	PHONE.	_
POLICE	PHONE-	_
Spill control eq	uipment is located:	
Fire extinguishe	rs are located;	
		-

National Response Center: 1-800-424-8802 Michigan Pollution Emergency: 1-800-292-4706

Printided by: The Environmental Assistance Division and the Waste Management Division of the Michigan Department of Environmental Quality Environmental Assistance Center 1-800-662-9278



Other hazardous waste requirements may apply.





Emergency Planning and Training Requirements

LQG Employee Training Documents

- Must have written hazardous waste training program
- Must conduct annual training for employees
- Must keep written training records for 3 years
- Training must be conducted by someone qualified to give training
- Must have description of the type of training given



Emergency Planning and Training Requirements

- Must have CURRENT & complete written contingency plan on-site
- Must make arrangements with fire dept., police, hospitals, emergency response contractors, and local emergency response teams and must have documentation that they were contacted



Pre-Transport Requirements

SQG & LQG offering 1,000 lbs. for shipment must have US DOT placards (for their type of waste) available for transporters [Rule 305(1)(e)]





Tank Inspection Documents

All tank inspections must be documented and all records must be kept for at least 3 years



Tank Certification

Must obtain a written assessment that is reviewed and certified by a qualified professional engineer that includes:

- Design standards
- Hazard characteristics of the waste
- Determination performed by corrosion expert if the external shell of a metal tank is in contact with soil or water
- Design considerations if tank affected by vehicles

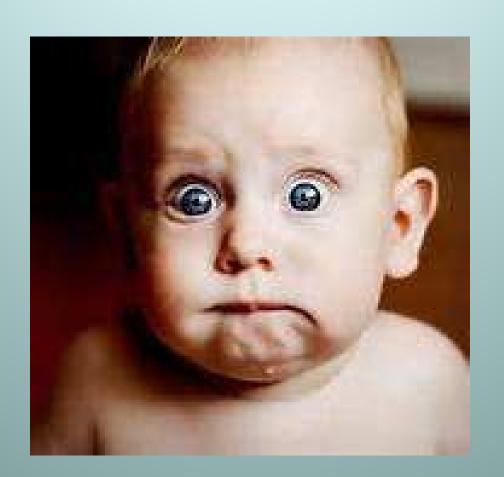


Tank Certification

Professional engineer written certification must be kept on file at facility



INSPECTION DAY!!





Inspection Day!!

When and why does an inspector visit?

Routine compliance inspection

Complaint received

Manifest discrepancies

Inspection requested by another agency



How To Survive An Inspection



Relax!!



Don't be adversarial.

Have your records in order.

Don't try to hide anything.

If asked to "fix" something, consider doing it then if possible.



What Do Inspectors Look At?

Records:

Waste Related — waste characterizations, manifests, LDR's, storage area logs, biennial report



Emergency Preparedness – personnel training records, contingency plans, spill control equipment lists

Waste Handling & Accumulation Areas:

Containers, tanks, labeling, secondary containment, work practices, emergency & communication equipment



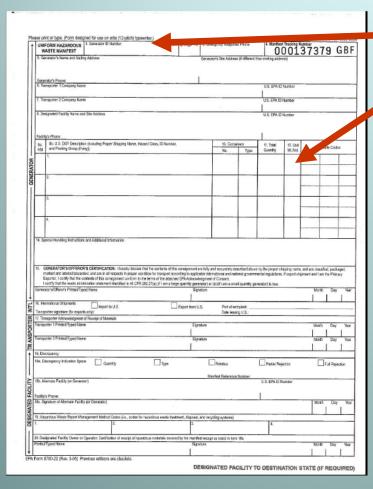


Gallery of Violations





Manifest Common Violations



Using wrong ID number

Using wrong or incorrect waste codes

Failing to ensure that signed copy is sent to state (when required)

Failing to keep signed manifests for three years

Failing to have records of used oil shipped on consolidated manifest



LDR Common Violations

Failing to keep LDRs & related documents for at least 3 years after waste last sent to TSDF

Missing LDR notification and waste analysis documents

Missing or incomplete information such as categories, underlying hazardous constituents, and manifest numbers

Listing LDR information that is inconsistent with waste characterization



Other Common Document Violations

Failing to have waste characterizations on site for ALL WASTES

Failing to have copy of last Biennial Report on site (LQG)

Failing to have *updated* contingency plan on site (LQG)

Failing to have personnel training records on site (LQG)



Don't stack more than 2 drums high

Leaning drum is a safety issue!

Failing to have adequate space or aisle width to properly inspect containers and provide access for emergency personnel

Failing to have labels visible for inspections





Exceeding the allowable on-site accumulation time limit for hazardous waste without requesting an extension or obtaining a storage permit





Notice leaking drum and stains







Leaving containers exposed to weather or vandals





Failing to keep the containers closed,
 except when waste is added or removed







Example 2 Leaving funnels in place that are not screwed into the bung and funnel not capable of being kept closed would be considered open





Notice the splashing on wall



Valve must be closed except when adding waste.



Compliant Closure Options



Lockable option

Notice the valve, it automatically closes when handle is released





Storage Container Labeling Violations

Listing incorrect or incomplete information on hazardous waste labels



Missing the accumulation date

Missing the words "Hazardous Waste"

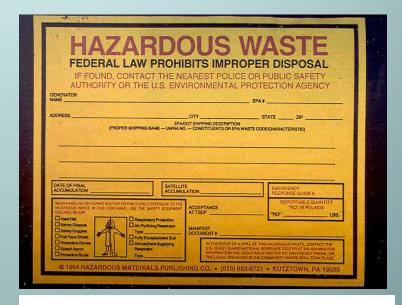
Missing the hazardous waste number(s)



Compliant Storage Labeling



Accumulation Label



Shipping Label



 Using Containers in Poor Condition



Some bad containers are obvious!

Leaking tank









Others require looking all around the container to see a problem

Look for staining as a sign

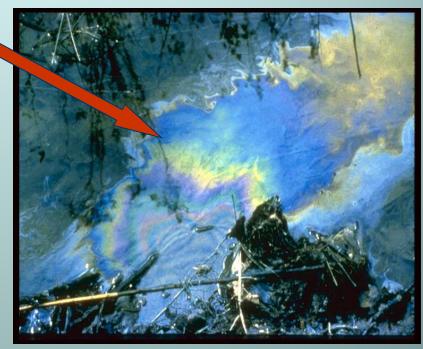




Other leaks require noticing

signs on the ground or puddles, etc.



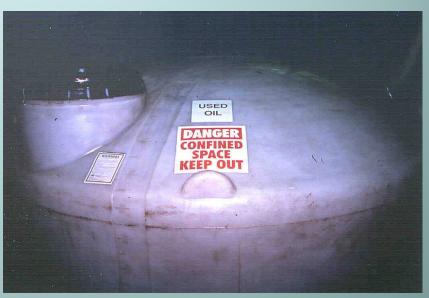




Compliant Used Oil Storage

Compliant Used Oil Labeling







Illegal Disposal of Used Oil









Lacking or inadequate secondary containment for LQG, SQG with over 2200 lbs. & any facility storing acutely hazardous wastes



Failing to have containers elevated or base of containment sloped to drain when required

Lacking or inadequate squirt protection

Notice the staining









Lacking or inadequate chemical resistant coating & having cracked surfaces





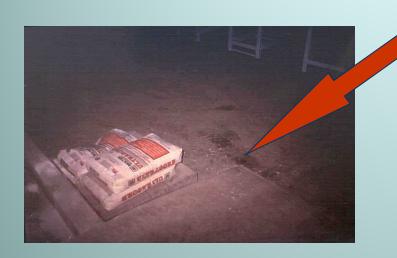


⊗ Failing to remove precipitation in a timely manner from containment areas

How can drums be checked for leaks if buried in snow?



Compliant Secondary Containment Options



Sloping ramp saves backs and reduces spills when moving materials in & out of containment area

Spill pallets OK for solids but DOES NOT provide squirt protection for liquids



This type
DOES provide
squirt
protection





Sorbents



Can be landfilled IF: don't contain free liquids, <u>AND</u> not a hazardous waste, OR were generated by CESQG



Sorbents used to clean up hazardous waste by SQG or LQG *must* be handled as hazardous waste





What Kind of Inspection Follow-up Is Necessary?



Respond according to the letter sent by the OWMRP.

Accompany inspector if there is a follow-up second inspection.

Have a question about the inspection? Call the inspector who visited your facility.

Have general waste question?
Call the Environmental Assistance
Center 800-662-9278.



MDEQ Hazardous Waste Generator Webinar - Self Certification

MDEQ Hazardous Waste Generator Webinar Trainer - Self Certification Print signatory's name here certify that I have viewed the entirety of the Michigan Department of Environmental Quality (MDEQ), Hazardous Waste Webinars listed below, for which I am a signatory, to gain a general understanding of the hazardous waste generator requirements under Part 111, Hazardous Waste Management, of the Michigan Natural Resources and Environmental Protection Act, Act 451 of 1994, as amended, and the rules promulgated thereunder. I further certify that I recognize that this information is general and it is essential for me to evaluate the need for additional site-specific training as part of a site-specific hazardous waste training program. I recognize that additional site-specific training is necessary to develop such a hazardous waste program for my facility and for me to be qualified to provide such training to on-site personnel to perform daily duties related to the generation and management of hazardous waste. Introduction to Hazardous Waste Regulations: Waste Characterization and Generator Status **Date Training Viewed** Introduction to Hazardous Waste Regulations: Hazardous Waste Generator Accumulation, Storage, and Labeling Signature **Date Training Viewed** Introduction to Hazardous Waste Regulations: Hazardous Waste Generator Recordkeeping & Inspection Signature **Date Training Viewed**



Questions

Feel free to ask questions via your question/chat box



Upcoming Events

- Jan-Feb MAERS and SARA Workshops
- March 18 & 20 Fugitive Dust Workshops
- May 8-9 Green Infrastructure Conference
- May-June Michigan Environmental Compliance Conference
- June 24 & 26 Advanced Waste Characterization Workshop



